

ESHS 50-160/11/P45RSSA

Technical data

Company name
Contact
Phone number
e-mail address

Operating data						
1	Pumpe type	Single head pump		Fluid	Water, pure	
2	No. of pumps	1		Operating temperature t A	°C	4
3	Nominal flow	m ³ /h	0	Max / Min Operating Temperature mech. Seal	°C	120 / -10
4	Nominal head	m	0	pH-value at t A		7
5	Static head	m	0	Density at t A	kg/m ³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm ² /s	1.569
7	Environmental temperature	°C	20	Vapor pressure at t A	kPa	100
8	Available system NPSH	m	0	Altitude		0

Pump data										
9	Lubrication	Standard, Grease lubrication [Std]								
10	Execution									
11	Design	Horizontal		Impeller Ø	Max.	mm	174			
12	Operating speed	1450 rpm	Stages		1	designed	mm	174		
13	Suction nozzle	DN 65	/	PN 16	/	EN1092-1	Min.	mm	158	
14	Discharge nozzle	DN 50	/	PN 16	/	EN1092-1	Flow	Nominal	m ³ /h	
15	Max. casing pressure	kPa	1200		Max-	m ³ /h		45		
16	Max. working pressure	kPa	96.6		Min-	m ³ /h	18			
17	Impeller type	Radial impeller		Head	Nominal	m				
18	Head H(Q=0)	m	9.8		at Qmax	m	4.8			
19	Max. shaft power	kW	.9		at Qmin	m	8.8			
20	Pump weight	kg			Shaft power	kW				
21	Total weight	kg	36.0		Efficiency	%				
					NPSH 3%	m				

Materials			
22		Pump	Shaft Seal
23	Pump body	Stainless steel / AISI 316L	Single mechanical seal, without shaft sleeve
24	Impeller	Stainless steel / AISI 316L	Uniten 3K
25	SEAL HOUSING	Stainless steel / AISI 316L	Mechanical seal diameter
26	Wear ring	Stainless steel / AISI 316L	1. Rotating ring
27	Counterwear ring	Stainless steel / AISI 316L	2. Stationary ring
28	Rigid shaft coupling	Stainless steel / AISI 316L	3. Secondary seal
29	Impeller locknut and washer	Stainless steel / AISI 316	4. Springs
30	Tab	Stainless steel / AISI 316L	5. Others
31	Fill/drain plugs	Stainless steel / AISI 316	Gaskets of the pump
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Motor data			
Electrical and dimensional data refer to IE3 motor			
42	Manufacturer	Lowara PLM	
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency	
44	Type	PLM 90 B5 1,1 kW	
45	Rated power	1.1 kW	Rated current
46	Nominal speed	1435 rpm	Rated voltage
47	Frame size	90	Service factor
48	Weight	kg 19.4	Degree of protection
			IP55

Remarks	
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Performance curve

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	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	50
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	1450
actual	174	18	45	32.8	9.85	7.04		0.906	0.861	Nominal flow	m³/h	0
Min.	0	/	/	30.1	8.01	5.7		/	0.655	Nominal head	m	0
Max.	174	/	/	32.8	9.85	7.04		/	0.861	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



